

## MONITORED SPECIES OF ALGAE, PLANTS AND ANIMALS AT CARMEL POINT

The following species of algae, plants, and animals are monitored at the Carmel Point site. Some of the monitored species are rare or absent at Carmel Point, but we list them on our data sheets for comparison with other sites surveyed. A few species that are not monitored, but are conspicuous and common at Carmel Point, are also listed. Sometimes similar species or genera are so difficult to distinguish in the field that they are counted together as one entry; we use “spp.” when all the species in one genus are counted together, and we use “/” to separate two species or genera that are counted together. Common names are given when available, but many species lack common names; in some cases we have made up descriptive common names. Species marked with an asterisk (\*) are currently being monitored at the Carmel Point site: **<sup>1</sup>counted as individuals in the 1/4m<sup>2</sup> quadrats, <sup>2</sup>counted as number of squares in the 1/4m<sup>2</sup> quadrats, <sup>3</sup>counted as individuals in a defined area.** Note: “alga,” “plant,” and “animal” are singular nouns; “algae,” “plants,” and “animals” are plural nouns; and “algal,” “plant,” and “animal” are adjectives. **Do not use “algae” as a singular noun or an adjective.**

### GREEN ALGAE/FLOWERING PLANTS

- \*<sup>2</sup>*Cladophora columbiana* - green pin-cushion alga
- \*<sup>2</sup>*Codium fragile* - dead man’s fingers
- \*<sup>2</sup>*Enteromorpha* spp./*Ulva* spp. - sea lettuces (actually very little seen)
- \*<sup>2</sup>*Phyllospadix scouleri/torreyi* - surfgrasses

### BROWN ALGAE

- \*<sup>1</sup>*Egregia menziesii* - feather-boa kelp
- \*<sup>2</sup>*Fucus gardneri* - flattened rockweed (mainly northwest side)
- Laminaria setchellii* - split-blade oar kelp
- Laminaria sinclarii* - slender oar kelp
- \*<sup>2</sup>*Pelvetiopsis limitata/Silvetia compressa* - slender rockweeds

### RED ALGAE

- \*<sup>2</sup>*Bossiella* spp./*Calliarthron* spp./*Corallina* spp. - upright coralline algae
- Chondracanthus canaliculata* - no common name
- Chondracanthus corymbifera/harveyana/spinosa* - turkish-towel algae
- \*<sup>2</sup>*Endocladia muricata* - scouring-pad alga
- Gastroclonium subarticulatum* - no common name
- Gelidium* spp. - no common name (confused with wet *Endocladia muricata*)
- Mastocarpus jardinii/papillatus* - stunted turkish-towel algae
- Mazzaella affinis* - no common name (confused with *Mastocarpus* spp.)
- \*<sup>2</sup>*Mazzaella flaccida/splendens* - iridescent algae
- Porphyra* spp. - nori
- Prionitis lanceolata* - no common name

### ENCRUSTING ALGAE

- \*<sup>2</sup>Encrusting coralline algae - *Lithophyllum* spp./*Lithothamnion* spp. and others on rocks
- \*<sup>2</sup>Tar-spot algae - *Mastocarpus* spp. (encrusting form)/*Petrospongium rugosum/Ralfsia* spp. and others

### SPONGES

- Axoclella/Microciona/Ophlitaspongia/Plocamia* - red sponges
- Haliclona* spp. - purple sponge

## SEA ANEMONES

- \*<sup>2</sup>*Anthopleura elegantissima* - aggregating anemone
- \*<sup>1,3</sup>*Anthopleura sola* - sunburst anemone
- \*<sup>1,3</sup>*Anthopleura xanthogrammica* - giant green anemone

## WORMS

- \*<sup>2</sup>*Phragmatopoma californica* - honeycomb tube worm

## CHITONS

- \*<sup>1</sup>*Mopalia* spp./*Nuttallina californica*/*Lepitochitona* spp. and others - chitons

## LIMPETS

- \*<sup>3</sup>*Lottia gigantea* (>2.5 cm) - owl limpet
- \*<sup>2</sup>*Lottia* spp. (0.5-2.5 cm, on rocks) - limpets

## SNAILS

- \*<sup>1</sup>*Acanthinucella* spp./*Nucella* spp. - whelks
- Littorina keenae* - eroded periwinkle
- Littorina plena/scutulata* - checkered periwinkles
- \*<sup>1</sup>*Tegula brunnea/funebris* - turban snails

## ABALONES

- \*<sup>3</sup>*Haliotis cracherodii* - black abalone

## NUDIBRANCHS (SLUGS)

- Hopkinsia rosacea* - Hopkins' rose

## MUSSELS

- \*<sup>2</sup>*Mytilus californianus* - California sea mussel

## BARNACLES

- \*<sup>2</sup>*Balanus glandula* and *Chthamalus dalli/fissus* - common acorn barnacles
- \*<sup>2</sup>*Pollicipes polymerus* - leaf barnacle
- \*<sup>2</sup>*Tetraclita rubescens* - pink acorn barnacle

## CRABS

- Pachygrapsus crassipes* - lined shore crab
- \*<sup>1</sup>*Pagurus* spp. - hermit crabs

## SEA STARS

- Asterina miniata* - bat star
- Pisaster giganteus* - giant spined sea star
- \*<sup>3</sup>*Pisaster ochraceus* - ochre sea star
- Pycnopodia Helianthoides* - sunflower star (not common, but spectacular)

## SEA URCHINS

- \*<sup>1</sup>*Strongylocentrotus purpuratus* - purple sea urchin (juveniles are green)

## TUNICATES

- Aplidium californicum* - slippery slab tunicate

*Archidistoma psammion* - sand encrusted slab tunicate

*Distalpia occidentalis* - mushroom tunicate

*Styela montereyensis* - stalked tunicate

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